

U.S. PATENT DOCUMENTS

<u>Document Number</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Subclass</u>
4,018,733	04/1977	Lopez et al.	260	27 EV
4,083,902	04/1978	Clyde	264	26
4,145,332	03/1979	Coxon	260	42.52
4,181,755	01/1980	Corke	428	348
4,332,975	06/1982	Dienes	174	76
4,434,320	02/1984	Klein et al.	174	23 R
4,456,784	06/1984	Klein	174	23 R
4,565,944	01/1986	Beurskens et al.	313	318
4,622,488	11/1986	Beurskens et al.	313	318
4,654,473	03/1987	Roux et al.	174	84 R
4,685,683	08/1987	Hall et al.	277	1
4,687,965	08/1987	Sanders et al.	313	318
4,888,519	12/1989	Borgis	313	318
4,963,698	10/1990	Chang et al.	174	77 R
4,963,785	10/1990	Takagi et al.	313	318
4,965,410	10/1990	Spector	174	78
4,988,912	01/1991	Borgis	313	318
4,990,821	02/1991	Blaisdell et al.	313	112
5,008,587	04/1991	Borgis	313	318
5,212,208	05/1993	Soderberg	521	96
5,242,750	09/1993	Wagner et al.	428	316.6
5,252,622	10/1993	DiStefano	521	65
5,287,894	02/1994	Shukushima et al.	138	140
5,312,872	05/1994	Vestberg et al.	525	324
5,322,972	06/1994	Fitch et al.	174	88 R
5,373,027	12/1994	Hanley et al.	521	84.1
5,385,951	01/1995	Soderberg	521	98
5,407,965	04/1995	Park et al.	521	81
5,772,310	06/1998	Cserteg et al.	362	225
5,791,927	08/1998	Iannone	439	280
5,931,474	08/1999	Chang et al.	277	316
5,979,902	11/1999	Chang et al.	277	316
5,160,465	11/1992	Soderberg	264	46.5
6,011,351	01/2000	Schemm	313	493

6,103,152	08/2000	Gehisen et al.	264	45.4
6,107,574	08/2000	Chang et al.	174	77 R
6,114,004	09/2000	Cydzik et al.	428	81
6,118,076	09/2000	Damm et al.	174	77 R
6,169,138 B1	01/2001	Petit et al.	524	500
6,398,900	06/2002	Hieda et al.	156	245

FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
2 525 811 A1	10/1983	France			Yes
915,134	10/1946	France			No
1 589 256	02/1970	Germany			Yes
1 958 307	01/1971	Germany			Yes
923,402	04/1963	Great Britain			No
936,481	09/1963	Great Britain			No
1,012,108	12/1965	Great Britain			No
1,060,297	03/1967	Great Britain			No
1,139,266	01/1969	Great Britain			No
WO 97/47681	12/1997	International			Yes
WO 98/28359	07/1998	International			Yes
53-135190	11/1978	Japan			No
59-121764	07/1984	Japan			Yes
3-112034	05/1991	Japan			No
9[1997]-100447	04/1997	Japan			Yes
63[1988]-55847	03/1988	Japan			Yes
10[1998]-40876	02/1998	Japan			Yes
56[1981]-9932	01/1981	Japan			Yes
56[1981]-9931	01/1981	Japan			Yes

OTHER DOCUMENTS

Details of Document

Henry R. Lasman, Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 532-565, 1985

International Search Report for International Application No. PCT/US02/24570, dated December 30, 2002.

Patent Abstracts of Japan, vol. 008, no. 243 (E-277), 8 November 1984 & Japanese Publication No. JP 59-121764A (Mitsubishi Denki KK), 13 July 1984 (abstract only). The actual patent document is listed above.

Product Brochure, "Introduction to Expancel Microspheres," January 1997

Product Specification, Expancel, Inc., November 1998

Rhomie L. Heck, III, et al., Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley& Sons), pp. 438-445, 1985

Technical Bulletin No. 24, "Expancel in Thermoplastics," Expancel, Inc., pgs. 2-3, undated

Technical Bulletin No. 30, "Expancel Microspheres in Injection Moulded Shoe Soles," Expancel, Inc., pgs. 2-5, undated

In accordance with 37 CFR §1.98(d), copies of the documents submitted by Applicants during the prosecution of the parent application are not being submitted. In accordance with the Official Gazette Notice dated July 11, 2003, waiving the requirement under 37 CFR § 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each cited U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003, copies of the remaining documents cited by the Examiner during prosecution, all of which were U.S. patents, are not being sent. All of these documents are, however, listed on the accompanying Form PTO-1449, and Applicants will readily supply copies if needed.

Fee

Applicants believe that because this Disclosure Statement is being submitted with the filing of this application, no fee is due. If this is incorrect, please charge any necessary fee to Deposit Account No. 18-0560.

Conclusion

Allowance of this application at an early date is earnestly requested. If, however, there are any outstanding issues which can be usefully discussed by telephone, the Examiner is asked to call the undersigned.

Respectfully submitted,

Marguerite E. Gerstner

Marguerite E. Gerstner
Registration No. 32,695
Telephone (650) 361-2483

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1725-US2	Appl'n No.: As yet unknown
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Mehan et al.	
		Filing Date: Herewith	Group: As yet unknown

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
	4,018,733	04/1977	Lopez et al.	260	27 EV	
	4,083,902	04/1978	Clyde	264	26	
	4,145,332	03/1979	Coxon	260	42.52	
	4,181,755	01/1980	Corke	428	348	
	4,332,975	06/1982	Dienes	174	76	
	4,434,320	02/1984	Klein et al.	174	23 R	
	4,456,784	06/1984	Klein	174	23 R	
	4,565,944	01/1986	Beurskens et al.	313	318	
	4,622,488	11/1986	Beurskens et al.	313	318	
	4,654,473	03/1987	Roux et al.	174	84 R	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
	2 525 811 A1	10/1983	France			Yes
	915,134	10/1946	France			No
	1 589 256	02/1970	Germany			Yes
	1 958 307	01/1971	Germany			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)
	Henry R. Lasman, Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 532-565, 1985	
	International Search Report for International Application No. PCT/US02/24570, dated December 30, 2002.	
	Patent Abstracts of Japan, vol. 008, no. 243 (E-277), 8 November 1984 & Japanese Publication No. JP 59-121764A (Mitsubishi Denki KK), 13 July 1984 (abstract only). The actual patent document is listed above.	
	Product Brochure, "Introduction to Expance Microspheres," January 1997	
	Product Specification, Expance, Inc., November 1998	
	Rhomie L. Heck, III, et al., Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 438-445, 1985	
	Technical Bulletin No. 24, "Expance in Thermoplastics," Expance, Inc., pgs. 2-3, undated	
	Technical Bulletin No. 30, "Expance Microspheres in Injection Moulded Shoe Soles," Expance, Inc., pgs. 2-5, undated	

Examiner's signature

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1725-US2	Appl'n No.: As yet unknown
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Mehan et al.	
		Filing Date:	Group:
		Herewith As yet unknown	

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
	4,685,683	08/1987	Hall et al.	277	1	
	4,687,965	08/1987	Sanders et al.	313	318	
	4,888,519	12/1989	Borgis	313	318	
	4,963,698	10/1990	Chang et al.	174	77 R	
	4,963,785	10/1990	Takagi et al.	313	318	
	4,965,410	10/1990	Spector	174	78	
	4,988,912	01/1991	Borgis	313	318	
	4,990,821	02/1991	Blaisdell et al.	313	112	
	5,008,587	04/1991	Borgis	313	318	
	5,160,465	11/1992	Soderberg	264	46.5	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
	923,402	04/1963	Great Britain			No
	936,481	09/1963	Great Britain			No
	1,012,108	12/1965	Great Britain			No
	1,060,297	03/1967	Great Britain			No
	1,139,266	01/1969	Great Britain			No
	WO 97/47681	12/1997	International			Yes
	WO 98/28359	07/1998	International			Yes
	53-135190	11/1978	Japan			No
	59-121764	07/1984	Japan			Yes
	3-112034	05/1991	Japan			No
	9[1997]-100447	04/1997	Japan			Yes
	63[1988]-55847	03/1988	Japan			Yes
	10[1998]-40876	02/1998	Japan			Yes
	56[1981]-9932	01/1981	Japan			Yes
	56[1981]-9931	01/1981	Japan			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)

Examiner's signature

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1725-US2	Appl'n No.: As yet unknown
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Mehan et al.	
		Filing Date: Herewith	Group: As yet unknown

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
	5,212,208	05/1993	Soderberg	521	96	
	5,242,750	09/1993	Wagner et al.	428	316.6	
	5,252,622	10/1993	DiStefano	521	65	
	5,287,894	02/1994	Shukushima et al.	138	140	
	5,312,872	05/1994	Vestberg et al.	525	324	
	5,322,972	06/1994	Fitch et al.	174	88 R	
	5,373,027	12/1994	Hanley et al.	521	84.1	
	5,385,951	01/1995	Soderberg	521	98	
	5,407,965	04/1995	Park et al.	521	81	
	5,772,310	06/1998	Cserteg et al.	362	225	
	5,791,927	08/1998	Iannone	439	280	
	5,931,474	08/1999	Chang et al.	277	316	
	5,979,902	11/1999	Chang et al.	277	316	
	6,011,351	01/2000	Schemm	313	493	
	6,103,152	08/2000	Gehisen et al.	264	45.4	
	6,107,574	08/2000	Chang et al.	174	77 R	
	6,114,004	09/2000	Cydzik et al.	428	81	
	6,118,076	09/2000	Damm et al.	174	77 R	
	6,169,138 B1	01/2001	Petit et al.	524	500	
	6,398,900	06/2002	Hieda et al.	156	245	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)

Examiner's signature

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1725-US2	Appl'n No.: As yet unknown
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Mehan et al.	
		Filing Date: Herewith	Group: As yet unknown

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
	4,018,733	04/1977	Lopez et al.	260	27 EV	
	4,083,902	04/1978	Clyde	264	26	
	4,145,332	03/1979	Coxon	260	42.52	
	4,181,755	01/1980	Corke	428	348	
	4,332,975	06/1982	Dienes	174	76	
	4,434,320	02/1984	Klein et al.	174	23 R	
	4,456,784	06/1984	Klein	174	23 R	
	4,565,944	01/1986	Beurskens et al.	313	318	
	4,622,488	11/1986	Beurskens et al.	313	318	
	4,654,473	03/1987	Roux et al.	174	84 R	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
	2 525 811 A1	10/1983	France			Yes
	915,134	10/1946	France			No
	1 589 256	02/1970	Germany			Yes
	1 958 307	01/1971	Germany			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)
	Henry R. Lasman, Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 532-565, 1985	
	International Search Report for International Application No. PCT/US02/24570, dated December 30, 2002.	
	Patent Abstracts of Japan, vol. 008, no. 243 (E-277), 8 November 1984 & Japanese Publication No. JP 59-121764A (Mitsubishi Denki KK), 13 July 1984 (abstract only). The actual patent document is listed above.	
	Product Brochure, "Introduction to Expance Microspheres," January 1997	
	Product Specification, Expance, Inc., November 1998	
	Rhomie L. Heck, III, et al., Blowing Agents, Encyclopedia of Polymer Science and Engineering, Vol. 2 (John Wiley & Sons), pp. 438-445, 1985	
	Technical Bulletin No. 24, "Expance in Thermoplastics," Expance, Inc., pgs. 2-3, undated	
	Technical Bulletin No. 30, "Expance Microspheres in Injection Moulded Shoe Soles," Expance, Inc., pgs. 2-5, undated	

Examiner's signature

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1725-US2	Appl'n No.: As yet unknown
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Mehan et al.	
		Filing Date: Herewith	Group: As yet unknown

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
	4,685,683	08/1987	Hall et al.	277	1	
	4,687,965	08/1987	Sanders et al.	313	318	
	4,888,519	12/1989	Borgis	313	318	
	4,963,698	10/1990	Chang et al.	174	77 R	
	4,963,785	10/1990	Takagi et al.	313	318	
	4,965,410	10/1990	Spector	174	78	
	4,988,912	01/1991	Borgis	313	318	
	4,990,821	02/1991	Blaisdell et al.	313	112	
	5,008,587	04/1991	Borgis	313	318	
	5,160,465	11/1992	Soderberg	264	46.5	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
	923,402	04/1963	Great Britain			No
	936,481	09/1963	Great Britain			No
	1,012,108	12/1965	Great Britain			No
	1,060,297	03/1967	Great Britain			No
	1,139,266	01/1969	Great Britain			No
	WO 97/47681	12/1997	International			Yes
	WO 98/28359	07/1998	International			Yes
	53-135190	11/1978	Japan			No
	59-121764	07/1984	Japan			Yes
	3-112034	05/1991	Japan			No
	9[1997]-100447	04/1997	Japan			Yes
	63[1988]-55847	03/1988	Japan			Yes
	10[1998]-40876	02/1998	Japan			Yes
	56[1981]-9932	01/1981	Japan			Yes
	56[1981]-9931	01/1981	Japan			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)

Examiner's signature

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1725-US2	Appl'n No.: As yet unknown
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Mehan et al.	
		Filing Date:	Group:
		Herewith As yet unknown	

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class	Filing date (if appropriate)
	5,212,208	05/1993	Soderberg	521	96	
	5,242,750	09/1993	Wagner et al.	428	316.6	
	5,252,622	10/1993	DiStefano	521	65	
	5,287,894	02/1994	Shukushima et al.	138	140	
	5,312,872	05/1994	Vestberg et al.	525	324	
	5,322,972	06/1994	Fitch et al.	174	88 R	
	5,373,027	12/1994	Hanley et al.	521	84.1	
	5,385,951	01/1995	Soderberg	521	98	
	5,407,965	04/1995	Park et al.	521	81	
	5,772,310	06/1998	Cserteg et al.	362	225	
	5,791,927	08/1998	Iannone	439	280	
	5,931,474	08/1999	Chang et al.	277	316	
	5,979,902	11/1999	Chang et al.	277	316	
	6,011,351	01/2000	Schemm	313	493	
	6,103,152	08/2000	Gehisen et al.	264	45.4	
	6,107,574	08/2000	Chang et al.	174	77 R	
	6,114,004	09/2000	Cydzik et al.	428	81	
	6,118,076	09/2000	Damm et al.	174	77 R	
	6,169,138 B1	01/2001	Petit et al.	524	500	
	6,398,900	06/2002	Hieda et al.	156	245	

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)

Examiner's signature

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.